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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,550	08/15/2003	Navcen Thumpudi	3382-65133	4585
26119 7590 04/12/2007 KLARQUIST SPARKMAN LLP 121 S.W. SALMON STREET			EXAMINER	
			RIDER, JUSTIN W	
SUITE 1600 PORTLAND, 0	OR 97204		ART UNIT	PAPER NUMBER
101121110,			2626	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
31 DAYS		04/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
	10/642,550	THUMPUDI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Justin W. Rider	2626					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 15 Au	aust 2003.						
	action is non-final.	•					
·==	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E.	· · · · · · · · · · · · · · · · · · ·						
Disposition of Claims		•					
4) Claim(s) 1-167 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.	•						
8) Claim(s) <u>1-167</u> are subject to restriction and/or	8) Claim(s) 1-167 are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate					

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Art Unit: 2626

DETAILED ACTION

Election/Restrictions

- 1. This application contains claims directed to the following patentably distinct species:
 - Group I (Claims 1-31), this group of claims is directed toward an encoder/decoder that embodies the use of specifically two distinct transforms in order to process data according to a quality standard.
 - Group II (Claims 32-57), this group of claims specifically embodies an
 encoder/decoder that incorporates the use of 'tiling' plural windows from different
 channels within a multi-channel encoder/decoder.
 - Group III (Claims 58-76), this group distinctly employs the determination of quantization noise in order to perform a weighting function as a pre-processing step before transforming and quantizing data.
 - Group IV (Claims 77-95), this group distinctly groups channels together in an effort to perform multi-channel transformations.
 - Group V (Claims 96-115), this group is directed towards the use of a hierarchal system of transforms in which to perform multi-channel transformations.
 - Group VI (Claims 116-155), this group is directed towards the selection of transforms to be performed from among a plurality of available transforms. This group also involves an 'on/off' capability of controlling the use of transforms.
 - Group VII (Claims 156-167), this group is directed towards the use of a plurality of matrices and the subsequent factorization of a matrix.

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2. The species are independent or distinct because while all embodiments deal with encoding/decoding of multi-channel audio inputs, each method/computer-readable medium attempts a patently distinct method of performing transformations on the input signals.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin W. Rider whose telephone number is (571) 270-1068. The examiner can normally be reached on Monday - Friday 7:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

J.W.R. 09 April 2007

> TÄLIVALDIS IVARS ŠMITS PRIMARY EXAMINER